

1. Student Details

This section should include your personal details, such as:

- **Name:** Rashmi Sharma
- **Course/Program:** Modern Application Development II
- **University:** IIT Madras
- **Student ID:** 22f3000442

2. Project Details

Project Title: Influencer Engagement & Sponsorship Coordination Platform - V2

Project Question Statement:

This platform connects Sponsors and Influencers, enabling Sponsors to advertise their products/services while Influencers earn monetary benefits by promoting these products/services.

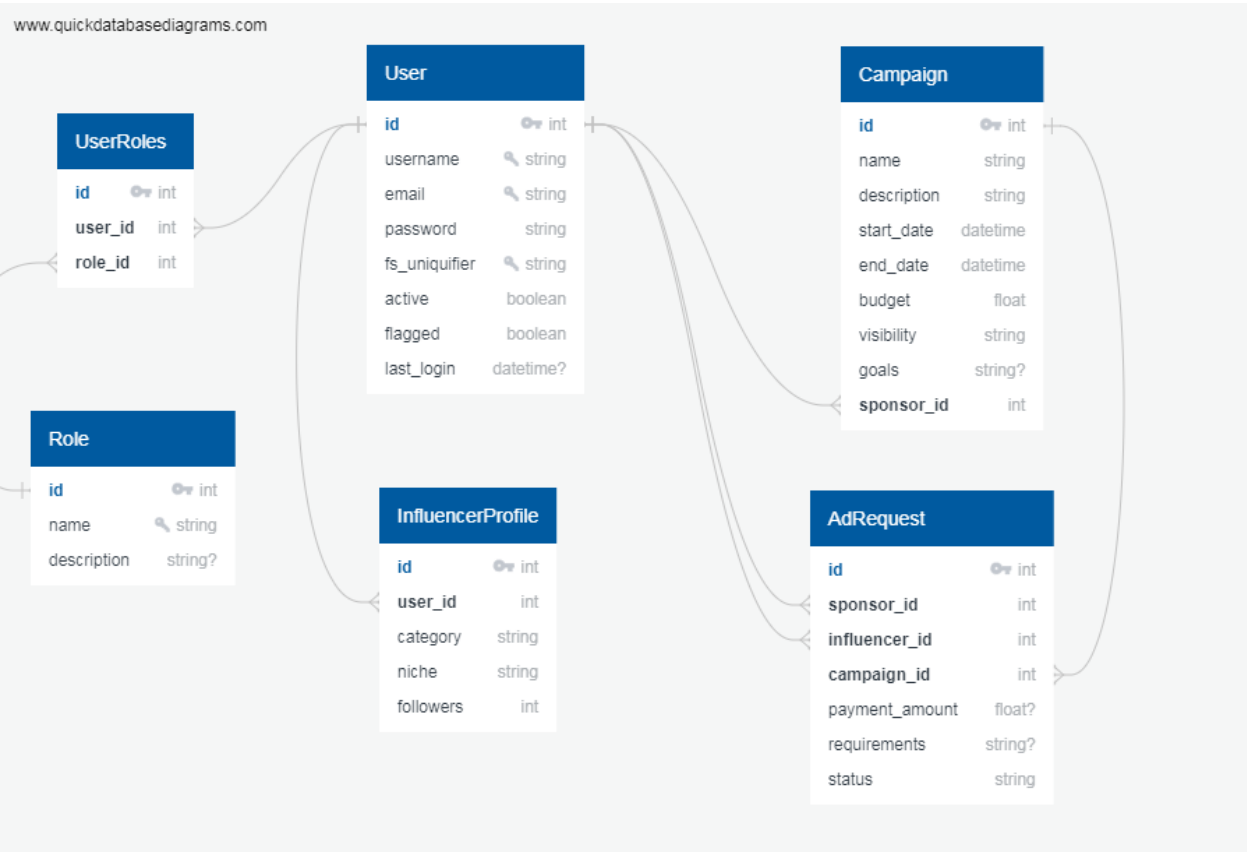
How the Problem Was Approached:

- **Problem:** Brands and companies often face difficulties in reaching the right influencers for their campaigns, and influencers struggle to find the right products/services to promote.
- **Solution:** The platform provides a seamless connection between Sponsors and Influencers, facilitating campaign creation, ad requests, negotiations, and payments. The admin can manage all users, campaigns, and statistics, ensuring a smooth experience for all parties involved.
- **Implementation:**
  - Used **Flask** for API development.
  - Implemented **SQLite** for data storage.
  - **Redis** was used for caching to improve performance.
  - **Vue.js** and **Bootstrap** were used for frontend development to ensure a responsive UI.
  - **Redis and Celery** were utilized for batch processing jobs like daily reminders and monthly activity reports.

3. Frameworks and Libraries Used

- **Backend:**
  - **Flask:** For creating the RESTful API.
  - **SQLite:** Lightweight database for storage.
  - **Redis:** Used for caching to optimize performance, especially for frequently accessed data.
  - **Celery:** For scheduling and running background tasks like daily reminders and monthly reports.
  - **Flask-Security/JWT:** For role-based authentication and user management.
- **Frontend:**
  - **Vue.js:** Used for the frontend, allowing for a dynamic and responsive UI.
  - **Bootstrap:** For styling and responsive layout.
  - **Vuex:** To manage the state, especially user authentication and data fetching.
  - **Axios:** For making HTTP requests to interact with the backend.
- **Additional Tools:**
  - **Flask-Mail:** For sending email notifications such as activity reports and reminders.

4. ER Diagram of Database



5. API Resource Endpoints

User Management

- **POST /api/login:** Login for sponsors, influencers, and admin.
- **POST /api/register:** Register new users (admin approval required for sponsors).
- **GET /api/user:** Fetch details of the logged-in user.

Admin Endpoints

- **GET /api/admin/dashboard:** Admin dashboard with all users..
- **POST /api/admin/flag\_user/{user\_id}:** Flag inappropriate users or campaigns.
- **GET /api/admin/stats:** admin stats on users, campaigns and requests.

Campaign Management (For Sponsors)

- **POST /api/campaigns:** Create a new campaign.
- **PUT /api/campaigns/{campaign\_id}:** Update an existing campaign.
- **DELETE /api/campaigns/{campaign\_id}:** Delete a campaign.

Ad Request Management (For Sponsors)

- **POST /api/ad\_requests:** Create a new ad request for a campaign.
- **PUT /api/ad\_requests/{ad\_request\_id}:** Update an existing ad request (accept, reject, negotiate).

Influencer Endpoints

- **GET /api/influencers:** List of influencers with optional search filtering.
- **GET /api/influencers/{influencer\_id}:** Get details of a specific influencer.
- **POST /api/influencers/profile:** Create or update influencer profile information.

Other Functionality

- **POST /api/export\_csv:** Export campaign details (public/private) as CSV for sponsors.

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6. Drive Link of the Presentation Video

[https://drive.google.com/file/d/1\\_e5MlsUysr\\_gSnnothj18HGuwYRRrZKx/view?usp=sharing](https://drive.google.com/file/d/1_e5MlsUysr_gSnnothj18HGuwYRRrZKx/view?usp=sharing)

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